

# EXHIBIT 1

## Castor Oil Specifications

	Color Gardner	Acid Number	% Moisture & Volatile	Appearance at 25° C	Hydroxyl Value	Iodine Value	Sap. Value
Industrial Castor Oil	3 Max	2 Max	0.25 Max	CLEAR	160-168	83-88	175-185
Pale Pressed Castor Oil	2 Max	1.50 Max	0.25 Max	CLEAR	160-168	83-88	175-185
	Color Gardner	Acid Number	Hydroxyl Value	Iodine Value	Sap. Value	Melt Point °C.	
Hydrogenated Castor	3 Max	3 Max	135 Min	3 Max	174-186	84-89	
12 Hydroxystearic Acid	8 Max *	175 Min	150 Min	6 Max	180 Min	72 Min	
	Color Gardner	Acid Number	Hydroxyl Value	Iodine Value	Sap. Value		
Ricinoleic Acid	11 Max *	175 Min	150 Min	80-91	180 Min		
	Color Gardner	Acid Number	Hydroxyl Value	Iodine Value	Sap. Value	Viscosity Gardner-Holdt/Stokes	
Blown Castor Oil-Z-1	6 Max	12-16	151-158	69-73	200-220	2-1 / 25-35	
Blown Castor Oil-Z-6	9 Max	10-14	130-140	56-65	210-230	2-5-6 / 100-150	
Blown Castor Oil-Z-8	16 Max	11-16	125-135	58-66	220-245	2-8 / 450-600	

\* Lighter color grades available